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most of the leading genera of fishes, with diagnoses of the families and higher divisions as understood by Dr. Günther, with many good illustrations. While this part of the work will always be most valuable to the student, it remains to point out two radical defects. In the first place, the systematic classification is anything but a just reflection of the structural likenesses and unlikenesses found in nature, combining as it does all the faults of the older authors, some of which are crystallized into a new error of the learned author's own creation. We allude to his subclass of *Palæichthytes*, which is a triumph of systematic *gaucherie*. The second deficiency of which we complain, is the wonderful ignorance of North American Ichthyology displayed in the book. It is scarcely necessary to enter into detailed criticism of this part of the subject. We summarize by saying that the book has no value whatever as representing North American Ichthyology, and can only be read by the student here, as a systematic text-book, with reference to exotic species and genera.

BRÜHL'S ZOÖTOMY FOR STUDENTS.¹—We have often wanted some work giving sketches, with each part identified, of the anatomy of common types, especially of vertebrates. It will be difficult for the student to find in any single book, not excepting Owen's anatomy of the vertebrate animal, good, detailed figures of the common salamanders, lizards, birds or mammals. We therefore subscribed to Brühl's Zoötomy, and have found the parts as issued so useful for the purpose stated, that we unhesitatingly recommend it to teachers as the cheapest and fullest atlas of comparative anatomy with which we are acquainted. Twenty parts have been published, of which five have appeared during the past year. They comprise among other illustrations the osteology and visceral anatomy of the fowl and other birds, different fishes, reptiles and the osteology and brains of the apes, the latter given with sufficient fullness. The five parts issued lately illustrate the osteology of the *Lepidosiren*, *Protopterus*, *Ceratodus*, *Chimæra*, *Callorhynchus*, *Rana pipiens*, and of different turtles, the details being abundant, and evidently well drawn from nature. Very few of the figures are copied from other authors, and appear to be reliable, though we have not compared them with original preparations. The author is Professor of Zoötomy in the University of Vienna. Further information is given in the title below.

INGERSOLL'S FRIENDS WORTH KNOWING.²—Boys and girls are, in this little book, treated to glimpses of snails, birds, wild mice, and then taken out to the plains and shown by word and pictures the

¹ *Zoötomie aller Thierklassen für Lernende*, nach Autopsien, skizzirt von CARL B. BRÜHL. Illustriert durch Zweihundert Tafeln, mit nahe 4000, von Verfasser meist nach der natur gezeichneten und sammtlich von ihm mit dem diamant in Stein radirten Figuren, Atlas in 50 Lieferungen zu 4 Tafeln. Wien, 1879, 8vo. Alfred Hölder, New York, B. Westermann & Co.

² *Friends Worth Knowing*. Glimpses of American Natural History. By ERNEST INGERSOLL. Illustrated. New York, 1881, 12mo, pp. 258.